

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|--|--|------------------|---------|---------------------|
| S2    | 1    | kishida-kyosuke.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/13<br>09:21 |
| S3    | 6    | demura-masahiko.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/13<br>09:22 |
| S4    | 11   | hirano-toshiyuki.in.   | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/13<br>09:22 |
| S5    | 16   | US-20051001861-\$.DID.<br>OR US-2200638-\$.DID.<br>OR US-20030004059-\$.<br>DID. OR US-5090997-\$.<br>DID. OR US-5116901-\$.<br>DID. OR US-4214807-\$.<br>DID. OR US-2279502-\$.<br>DID. OR US-1111990-\$.<br>DID. OR US-2141402-\$.<br>DID. | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/08/13<br>12:12 |
| S6    | 4    | xu-ya.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/14<br>11:43 |
| S7    | 1    | kishida-kyosuke.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/14<br>11:43 |
| S8    | 6    | demura-masahiko.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/14<br>11:43 |
| S9    | 11   | hirano-toshiyuki.in.   | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/14<br>11:43 |
| S10   | 14   | S6 or S7 or S8 or S9   | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/14<br>11:43 |
| S12   | 525  | 502/300.ccls.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/15<br>17:09 |
| S13   | 307  | 48/198.7.ccls.   | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/15<br>17:09 |
| S14   | 4    | xu-ya.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/18<br>11:38 |
| S15   | 1    | kishida-kyosuke.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/18<br>11:38 |
| S16   | 6    | demura-masahiko.in.  | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/18<br>11:38 |
| S17   | 11   | hirano-toshiyuki.in.   | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/18<br>11:38 |
| S18   | 14   | S14 or S15 or S16 or S17   | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/18<br>11:38 |
| S19   | 1    | S18 and catalyst   | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2008/08/18<br>11:38 |

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|-----|---------|--|--|----|----|---------------------|
| S20 | 4       | xu-ya.in.  | US-PGPUB;<br>USPAT                                 | OR | ON | 2008/08/19<br>11:53 |
| S21 | 1       | kishida-kyosuke.in.  | US-PGPUB;<br>USPAT                                 | OR | ON | 2008/08/19<br>11:53 |
| S22 | 6       | demura-masahiko.in.  | US-PGPUB;<br>USPAT                                 | OR | ON | 2008/08/19<br>11:53 |
| S23 | 11      | hirano-toshiyuki.in.   | US-PGPUB;<br>USPAT                                 | OR | ON | 2008/08/19<br>11:53 |
| S24 | 14      | S20 or S21 or S22 or S23   | US-PGPUB;<br>USPAT                                 | OR | ON | 2008/08/19<br>11:53 |
| S25 | 1       | S24 and methanol   | US-PGPUB;<br>USPAT                                 | OR | ON | 2008/08/19<br>12:03 |
| S26 | 1       | S24 and reform\$4  | US-PGPUB;<br>USPAT                                 | OR | ON | 2008/08/19<br>12:03 |
| S27 | 16      | US-20051001861-\$.DID.<br>OR US-2200638-\$.DID.<br>OR US-20030004059-\$.<br>DID. OR US-5090997-\$.<br>DID. OR US-5116901-\$.<br>DID. OR US-4214807-\$.<br>DID. OR US-2279502-\$.<br>DID. OR US-1111990-\$.<br>DID. OR US-2141402-\$.<br>DID. | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/08/19<br>14:10 |
| S28 | 1       | S27 and methanol   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/08/19<br>14:10 |
| S29 | 72823   | "502"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/08/19<br>15:46 |
| S30 | 4148    | 428/408.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/08/19<br>15:47 |
| S31 | 76922   | S29 or S30   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/08/19<br>15:47 |
| S32 | 7164042 | "Ni.sub.3" Al  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/08/19<br>15:47 |
| S33 | 43661   | S31 and S32  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/08/19<br>15:47 |

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|-----|-------|--|---|----|----|---------------------|
| S34 | 30719 | S33 and (powder or granule or particle)                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | OR | ON | 2008/08/19<br>15:48 |
| S35 | 1519  | S34 and roll   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | OR | ON | 2008/08/19<br>15:48 |
| S36 | 51    | S35 and solidification   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | OR | ON | 2008/08/19<br>15:48 |
| S37 | 792   | "Ni.sub.3" with Al   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | OR | ON | 2008/08/19<br>16:01 |
| S38 | 27    | S33 and S37  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | OR | ON | 2008/08/19<br>16:02 |
| S39 | 74    | S37 and catalyst   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | OR | ON | 2008/08/19<br>16:25 |
| S40 | 1     | S24 and S37  | US-PGPUB;<br>USPAT  | OR | ON | 2008/08/19<br>16:51 |
| S41 | 1     | S24 and ingot  | US-PGPUB;<br>USPAT  | OR | ON | 2008/08/19<br>17:03 |
| S42 | 1     | S24 and nano\$6  | US-PGPUB;<br>USPAT  | OR | ON | 2008/08/19<br>17:04 |
| S43 | 1     | S24 and hydrogen   | US-PGPUB;<br>USPAT  | OR | ON | 2008/08/19<br>17:04 |
| S44 | 2345  | carbon near nanofiber  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/08/19<br>17:33 |
| S45 | 1000  | S44 and ((Ni or nickel) or ("Ni.sub.3." adj Al)) and particles | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/08/19<br>17:34 |
| S46 | 273   | S45 and deposit  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/08/19<br>17:34 |
| S47 | 201   | S46 and catalyst   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/08/19<br>17:34 |

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|-----|-------|---|---|----|-----|---------------------|
| S48 | 0     | S44 and ("Ni.sub.3." adj Al) and particles                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2008/08/19<br>17:43 |
| S49 | 0     | S44 and ("Ni.sub.3." adj Al)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2008/08/19<br>17:43 |
| S50 | 285   | S44 and ((Ni or nickel) or ("Ni.sub.3." adj Al)) and (metal near particles) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2008/08/19<br>17:48 |
| S51 | 225   | S50 and catalyst  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2008/08/19<br>17:48 |
| S52 | 2     | "6471936".pn.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2008/08/19<br>18:02 |
| S53 | 2     | "6350488".pn.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2008/08/19<br>18:07 |
| S56 | 1     | ("20080014431").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/08/20<br>15:00 |
| S57 | 12    | hirano-toshiyuki.in.  | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:28 |
| S58 | 47340 | "502".clas.   | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:29 |
| S59 | 34478 | S58 and catalyst  | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:29 |
| S60 | 195   | S59 and (methanol near reform\$3)   | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:30 |
| S61 | 100   | S60 and (nickel or ni) and (aluminum or al)                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:30 |
| S62 | 978   | "ni.sub.3al" or "ni.sub.3 al" or ni3al                                      | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:32 |
| S63 | 750   | S61 and "ni.sub.3al" or "ni.sub.3 al" or ni3al                              | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:33 |
| S64 | 3     | S61 and ("ni.sub.3al" or "ni.sub.3 al" or ni3al)                            | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:33 |
| S65 | 111   | S62 and catalyst  | US-PGPUB;<br>USPAT  | OR | ON  | 2009/03/03<br>18:51 |

|     |      |   |                        |    |     |                  |
|-----|------|---|------------------------|----|-----|------------------|
| S66 | 10   | S65 and (methanol near reform\$4)             | US-PGPUB; USPAT        | OR | ON  | 2009/03/03 18:52 |
| S67 | 979  | "ni.sub.3al" or "ni.sub.3 al" or ni3al        | US-PGPUB; USPAT        | OR | ON  | 2009/03/11 15:36 |
| S68 | 111  | S67 and catalyst                              | US-PGPUB; USPAT        | OR | ON  | 2009/03/11 15:36 |
| S69 | 92   | S68 and (powder or granule)                   | US-PGPUB; USPAT        | OR | ON  | 2009/03/11 15:36 |
| S70 | 22   | "5330701"                                     | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/03/17 12:48 |
| S71 | 2    | "01222002"                                    | JPO; DERWENT           | OR | OFF | 2009/03/17 12:48 |
| S72 | 2    | "50036302"                                    | JPO; DERWENT           | OR | OFF | 2009/03/17 12:48 |
| S73 | 3    | "2001048022"                                  | DERWENT                | OR | OFF | 2009/03/17 12:49 |
| S74 | 6    | "6444061"                                     | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/03/17 16:16 |
| S75 | 96   | methanol near reforming near catalyst         | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/03/18 13:05 |
| S76 | 52   | S75 and (Ni or nickel) and (al or aluminum)   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/03/18 13:06 |
| S77 | 8    | S76 and ((reduce or reduction) near hydrogen) | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/03/18 13:17 |
| S78 | 1    | "20030042226"                                 | US-PGPUB; USPAT        | OR | ON  | 2009/03/24 14:26 |
| S79 | 1    | "2002201014"                                  | JPO                    | OR | ON  | 2009/03/24 14:35 |
| S80 | 41   | "5496655"                                     | US-PGPUB; USPAT        | OR | ON  | 2009/03/25 16:12 |
| S81 | 1    | "20030042226"                                 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/10 20:45 |
| S82 | 1322 | carbon with nano with tubes                   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/10 20:49 |
| S83 | 139  | S82 and (fine with metal with particles)      | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/10 20:49 |
| S84 | 37   | S83 and hydrogen                              | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/10 20:49 |
| S85 | 42   | "5496655"                                     | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/10 20:52 |
| S86 | 1    | "5496655".pn.                                 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/10 20:52 |
| S87 | 23   | "5330701"                                     | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/10 21:01 |
| S88 | 5    | xu-ya.in.                                     | US-PGPUB; USPAT        | OR | ON  | 2009/10/20 14:50 |

## **EAST Search History (Interference)**

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**11/ 30/ 2010 10:09:08 AM**

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